WherePort III® HD

SEE MORE. DO MORE.

WherePort III® HD Benefits

- Ruggedized for Outdoor Use
- RS-232c Interface
- Adjustable Range - BAA/TAA compliant

Heavy Duty Exciter for Mobile Outdoor Environments

Zebra Location Solutions offers a heavy duty version of the WherePort III exciter that is designed for mobile outdoor environments. The WherePort III HD exciter, is used to indicate proximity between mobile devices in harsh environments. It withstands higher levels of shock and vibration than our standard WherePort III exciter. It is sealed against dust and water and designed to be utilized in rugged outdoor applications.

The WherePort III HD provides proximity localization by triggering a WhereTag IV asset tag to transmit a series of blinks containing the unique ID of the WherePort III HD. These WherePort blinks provide enhanced visibility as the mobile device moves within range of a tagged asset. The WherePort III can also enable or disable an alternate blink mode in a WhereTag IV asset tag. The alternate blink mode is typically a faster blink rate for a fixed time period, which provides enhanced visibility for subsequent movements of the tagged asset.

The WherePort III HD exciter is compliant with the ISO/IEC 24730-2 standard. It also has an RS-232c interface that enables users to configure the exciter. The WherePort III HD signal field is nearly spherical and its range is configurable from approximately 0.76 m (2.5 ft) to 7.9 m (26 ft). The range setting is configurable with eight possible settings. The WherePort III HD exciter requires either 24VAC or 36VDC input power.

A WhereTag IV asset tag can be used and configured as a WherePort III Health and Status Asset Tag to broadcast real-time WherePort III health and status information to the RTLS infrastructure and edgeware software applications.

SPECIFICATIONS

WHEREPORT III® HD

Model

WPT-3200-02

Environmental/Physical/Power

Operating Temperature
-30° C to +60° C (-22° F to +140° F)

Storage Temperature
-40° C to +60° C (-40° F to +140° F)

Humidity
0-100% (non-condensing)

Diameter
22.9 cm (9 in)

Depth
12.7 cm (5 in)

Weight
2.5 kg (5.6 lbs)

Environmental Sealing
IP65 (dust tight, water jets)

Case Material
PC/ABS

Electrical

Input Voltage
24 VAC or 36 VDC
(WherePort III HD power supply sold separately)

Power Connector
DIN Connector (Cable Provided)

Power Dissipation
4.2 W (max)

Operating Current
250 mA (max)

Field Intensity Limits
125 A/m at housing (ANSI/IEEE C 95.1)

51.5 dBμA/m at 10 m (ETSI)

Propagation Limits
18.9 μV/m at 300 m (FCC)

RS-232c Serial Interface

Data Rate
19.2Kbps

Protocol
8 data bits, 1 stop bit, no parity

RS-232c Connector
Requires Optional Communications Cable

Wireless Air Interface

Transmission Frequency
115 kHz — 127 kHz

Modulation
FSK

Range (8 configurable settings)
from 0.76 m (2.5 ft) to 7.9 m (26 ft)*

Regulatory Approvals

- FCC Part 15 Class A
- EN 55022 Class A
- EN 55024
- EN 60950
- EMC Directive 89 /336/ EEC

Standards

ISO/IEC 24730-2 Compliant

Accessories

Serial cable
10 Foot

Power Supplies
- 120V/240V - 36 VAC
- 12 VDC - 36 VDC

Heavy Duty Mounting Kit for Mobile Applications

Extended Environmental Conditions

Sine Sweep Vibration
The WherePort III HD exciter will withstand a logarithmic sine sweep from 10-500Hz using a 1/2G sine shape input in an ascending and descending mode of 5 minutes duration each.

Random Vibration
The WherePort III HD exciter exceeds MIL - STD-810 D, method 514, for basic transport. It withstands increased input levels to accommodate 5 G RMS level from 5-500Hz in all 3 axes. This level is extreme and greater than ANSI and the ISTA standards for random vibration testing. This level of power spectral density is more severe than environments expected to be encountered on vehicular transport equipment.

Shock
The WherePort III HD exciter exceeds MIL - STD-810 D, method 516, for basic transport of ground based equipment under 100lbs and in any transport vehicle including forklifts, trailers, transports, and truck and trailer transport vehicles; 40g, 11ms sawtooth or half-sine shock pulse in all 3 axes. The WherePort III HD exciter is designed to endure 100 shocks of 80G for all 3 axes.

Transit Drop
The WherePort III HD exciter exceeds MIL - STD-810 D, method 516, for functional test of ground equipment under 100lbs to a transit drop of 72 inches. This level is intended to demonstrate the life of the unit through harsh environments and handling. The WherePort III HD exciter will endure 600 shocks of 40G for all 3 axes.

* Typical full power open air environments.

Specifications are subject to change without notice.

Corporate Headquarters
+1 800 423 0442
inquiry4@zebra.com

Asia-Pacific Headquarters
+65 6858 0722
apacchannelmarketing@zebra.com

EMEA Headquarters
+44 (0)1628 556000
mseurope@zebra.com

Latin America Headquarters
+1 847 955 2283
inquiry4@zebra.com

Other Locations / USA: California, Georgia, Illinois, Rhode Island, Texas, Wisconsin **Europe:** France, Germany, Italy, the Netherlands, Poland, Spain, Sweden, Turkey, United Kingdom **Asia Pacific:** Australia, China, Hong Kong, India, Japan, Malaysia, South Korea, Singapore, Thailand **Latin America:** Brazil, Florida (LA Headquarters in USA), Mexico **Africa/Middle East:** Dubai, South Africa

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